Name of work; Improvements to Asphalting to Roads and Drains at Best County, Amba Bhavani Nagara, Amba Bhavani Layout, Prakruthi Layout and Surrounding Areas ward No-03 of Yelahanka division (Package No- 06)
Name of the Agency:- Sri N. K. Shankar , M/s I S Infrastructures
Bill No:- 1st and Part Bill

Work Order No:- BBMP/EE/YNK/E-PMT-No.-5/W.O/ 178 /2020-21
Agreement No:- BBMP/EE/YNK/E-PMT-NO -5/AG/ 149 /2020-21

Head of Account : P-3075
Tender approved Amount : Rs. 5,78,30,636/-
Job Code:- 003-21-000047

CERTIFICATE

BOQ Sl No	Description of the Item	Comments/Observation
1	KSRRB 300-1. Earthwork excavation by manual means for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications (I No-19.1,P No-141), 10km lead = (1.28x2x10)+57.	Work done up to the billed quantity and quantity is satisfactory
2	KSRRB M2900-1. Plain cement concrete 1:3:6 mix with crushed stone aggregate 40 m nominal size mechanically mixed, placed in foundation and compacted by vibration including curing complete as per specifications MORTH Specification No. 408 KPWD S.R 2018-19 Page No. 254 I.No. 34.1	Work done up to the billed quantity and quantity is satisfactory
3	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls per MORTH specification No. 1500, 1700, 2200. including cost of materials, labour, HOM complete as per specifications.Wall & bottom thickness 15cm KPWD S.R 2018-19 Page No. 271 I.No. 37.59.2and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as	Work and quantity is satisfactory done up to the billed quantity

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BOQ Sl No	Description of the Item	Comments/Observation
4	KSRRB M2200-6. Providing T.M.T. steel reinforcement for R.C.C. work including straightening, cutting, bending, hooking, placing in position, lapping and/or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per disign (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specification. MORTH Specification No.1600 & 2200(I No-28.8.2,P No-229)	Work done up to the billed quantity and quantity is satisfactory
5	Providing & laying precast drain cover slab of 100 mm thickness in CM 1:3 including cost of all materials, labour, curing, transportation, loading, unloading etc, complete as per the directions of the Engineer In Charge.(0.9 x 0.60 x 0.1)Data rate	Work done up to the billed quantity and quantity is satisfactory
6	Providing & laying precast drain cover slab of 250 mm thickness in CM 1:3 including cost of all materials, labour, curing, transportation, loading, unloading etc, complete as per the directions of the Engineer In Charge.(1.2 x 0.60 x 0.25)Data rate	Work done up to the billed quantity and quantity is satisfactory
7	Providing and fixing pre cast solid cement concrete kerb stones made out of CC 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting including formwork, curing, including cost of materials, labour charges of machinery, loading and unloading, lead and lift, transportation ete.,complete. As per the direction of Engineer incharge. (P.No.27, I.No.5.30 of PW, P&IWTD SR 2018-19)	Work done up to the billed quantity and quantity is satisfactory
8	KSRRB M300-14. Excavation for roadwork in all types of soil with hydraulic excavator of 0.9 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to the embankment location to a lead of 1.00 km and complete as per specifications. MORTH Specification No.301(pg no-143,S.Lno-19.14)KPWD S.R 2018-19	Work done up to the billed quantity and quantity is satisfactory

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BOQ SL.NO.	Description of the Item	Comments/Observation
9	KSRRB 300-58. Compaction of original ground with maximum of 6 passes of 8 to 10 tonnes power roller including filling in depression occuring during rolling including cost of all labour, HOM of machinery complete as per specifications. MORTH / Chapter 3 (I No-19.64,P No-147)	Work done up to the billed quantity and quantity is satisfactory
10	Construction of granular sub-base Grading-V as sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/trap/basalt material, mixing in a mechanical mix plant at OMC, carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98% proctor density, complete as per specifications.Clause 401 of MORTH V Revision. Page No. 153/ Item No. 20.5/ PWD SR 2018-19,202.(I No-18.47,P No-140) 10km lead = (1.28x2x10)	Work done up to the billed quantity and quantity is satisfactory
11	KSRRB M400-17. Providing, laying, spreading and compacting crushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406 Page No. 155/ Item No. 20.18/ PWD SR 2018-19	Work done up to the billed quantity and quantity is satisfactory

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TEST REPORT ON M20 GRADE CONCRETE

Name of work: Improvements to Asphalting to Roads and Drains at Best County, Amba Bhavani Nagara, Amba Bhavani Layout, Prakruthi Layout and Surrounding Areas ward No-03 of Yelahanka division (Package No- 06)

location :BHEL 8th cross road

Client: Assistant Executive Engineer Division, Yelahanka BBMP, Bangalore

Name of the Work Order No:-BBMP/EE/YNK/E-PMT-No.-5/W.O/ 178 /2020-21

Agreement No:- BBMP/EE/YNK/E-PMT-NO -5/AG/ 149 /2020-21

Agency: Sri N. K. Shankar , M/s I S Infrastructure

Size of cubes : 150 x150 x 150 mm

Cross Sectional area : 22500 mm2

Grade of concrete : M20

Compressive Strength as on : 28 Days

Date of casting : 30/12/2020

Concrete for culvert slabs and Drain slabs

28 Days test Results

Sl no	Date of casting	Date of testing	Failure load	Compressive Strength (N/mm2)	Average Compressive Strength (N/mm2)
1	30/12/2020	27/01/2021	509.8	22.66	22.99
2	30/12/2020	27/01/2021	518.7	23.05	
3	30/12/2020	27/01/2021	523.4	23.26	

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